

TRAFFIC SIGNAL TECHNICIAN

DEFINITION

Under general supervision of the Transportation Manager, performs a variety of semi-skilled tasks involving the maintenance, repair, modification, inspection, and testing of traffic signals, controllers, and street lighting systems; and performs other duties as assigned.

DISTINGUISHING CHARACTERISTICS

This is the journey level technical class and it is expected that the incumbent would perform the full range of duties for this class independently and without close supervision. Employees at this level receive only occasional instruction or assistance as new or unusual situations arise. Adequate performance at this level requires the knowledge of the maintenance and repair of traffic signals and related equipment. The Traffic Signal Technician is distinguished from other maintenance classifications by the specialized knowledge required of the position.

SUPERVISION RECEIVED

Receives general supervision from the Transportation Manager.

SUPERVISION EXERCISED

May exercise technical and functional supervision over lower level clerical staff as necessary.

ESSENTIAL DUTIES

Duties may include but are not limited to the following:

Installs, adjusts, tests, inspects, and maintains traffic signals and streetlight software, hardware, and circuitry.

Performs regular monthly preventive maintenance inspections and associated repair of traffic signals and streetlight equipment.

Diagnoses malfunctions and performs necessary repairs, such as pole knockdowns and traffic signal timing problems.

Modifies detector loops and changes and repairs traffic signal heads.

Maintains records related to reported malfunctions and repairs to streetlights.

Provides recommendations for street lighting and traffic signal operational and maintenance improvements and implements programs as approved.

ESSENTIAL DUTIES (continued)

Completes night surveys for streetlights, reports outages, and makes recommendations for improved lighting.

Paints traffic signal and streetlight equipment.

Re-lamps streetlights and traffic signals.

Operates testing and measurement equipment.

Completes emergency repairs during or after normal working hours.

Assists other staff members with related work as assigned.

Performs related duties as assigned.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

Maintenance and repair techniques for electronic and electrical components and circuitry.

Methods used in problem-solving and troubleshooting to resolve complex electrical, electronic, and traffic signal computer networking problems.

Safe operation and maintenance of hand and power tools, light equipment, heavy motorized equipment, welders and torches.

Methods and techniques used in traffic control and related safety procedures.

Applicable Federal, State and local laws, City and departmental regulations, codes, policies and procedures.

Safety regulations and practices applicable to electrical equipment.

Modern office practices, methods and computer applications related to the work.

Ability to:

Follow detailed and technical written or verbal instructions.

Read and understand plans, specifications, manuals and sketches related to traffic signals, street lighting, area lighting, and building electrical circuits.

Keep current on changing signal and streetlight technology.

JOB RELATED AND ESSENTIAL QUALIFICATIONS (continued)

Ability to (continued):

Locate and repair defects in traffic signals, streetlights and related equipment.

Demonstrate skill and safe working practices in use of tools and equipment.

Perform duties in a safe manner while elevated above traffic in or on appropriate equipment.

Communicate clearly and concisely, both orally and in writing.

Operate modern office equipment including computer equipment and specialized software applications programs.

Identify and take appropriate action when unusual operating problems occur.

Use tact, initiative, prudence, and independent judgment within general policy and legal guidelines.

Establish and maintain effective working relationships with those contacted in the course of the work.

Work with minimal supervision.

EXPERIENCE AND EDUCATION

Any combination equivalent to experience and education that could likely provide the required knowledge and abilities would be qualifying. A typical way to obtain the knowledge and abilities would be:

Experience: Two (2) years of electrical construction or maintenance experience including repairing traffic signals or electrical systems and/or related equipment.

Education: Equivalent to completion of the twelfth grade.

Licenses and Certificates: Possession and maintenance of a valid Class C California driver's license. Certification by the International Municipal Signal Association Level I and Level II Traffic Signal Technician is required with eighteen (18) months of appointment date.

SPECIAL REQUIREMENTS

Essential duties require the mental and/or physical ability to: work in outside environment with exposure to various weather conditions with occasional work carried out in an office setting; use standard office equipment and current software; grasp, push, pull, and fine manipulation; distinguish colors used in electrical cable coding; see gauges and lights on color panels; lift or carry weight of approximately 75 pounds; sit, stand, walk, reach, twist, turn, kneel, bend, squat

and stoop in the performance of daily activities; converse by telephone, email, in person, and to small or large groups and be clearly understood; read and comprehend maps, specifications, and technical and complex documents; interact with the public and all different levels of City staff in an effective and professional manner. Essential functions must be performed with or without reasonable accommodations.

PROBATIONARY PERIOD: One (1) Year

675CS12

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AAP Group: 5

FPPC STATUS: Non-Designated

FLSA STATUS: Non-Exempt